

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: CAUSTIC SODA LIQUID 50%

Product code: 40016501

Other names: Sodium Hydroxide Solution

Product Use: General chemical.

Manufacturer: Elite Chemicals
1873 Lytton Road
LYTTON, Queensland, 4178.

Postal Address
PO Box 8022
WYNNUM NORTH, Queensland, 4178.

Telephone: 07 3893 7500

Emergency Tel: 07 3893 7500 (24 Hour), 0411 863 178

2. HAZARDS IDENTIFICATION

General: Corrosive. Contact with skin and eyes may cause severe burns.

Hazard symbol: Corrosive (C)

Risk-phrases: R35 Causes severe burns.

Safety-phrases: S(1/2)-26-36/37/39-45 Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident, or if you feel unwell, contact a doctor or Poisons Information Centre immediately.

Classified as HAZARDOUS according to the criteria of ASCC.
Classified as DANGEROUS GOODS according to the Australian Dangerous Goods Code.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion (% w/w)
Sodium Hydroxide	1310-73-2	30 - 60
Other ingredients classified as not hazardous according to the criteria of ASCC.		

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4. FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre Phone 131126

Swallowed:	Do not induce vomiting. Rinse mouth out with water then give large quantities of water to drink. Do not give anything if victim is unconscious. Seek urgent medical advice.
Eye exposure:	Immediately hold eyelids open and irrigate continuously with water for 15 minutes. Lift upper and lower lids occasionally. Seek urgent medical advice.
Skin exposure:	Remove all contaminated clothing. Wash affected areas thoroughly with soap and water. For gross contamination, immediately drench with water and remove clothing. Wash contaminated clothing before reuse. Seek urgent medical advice.
Inhalation:	Remove from contaminated area immediately to fresh air; avoid becoming a casualty. If breathing is difficult, give oxygen. If not breathing apply artificial resuscitation. Seek medical advice.
First Aid Facilities:	Use should be made of an on-site approved first aid kit if required in the first instance until medical assistance is forthcoming.
Advice to Doctor:	Treat symptomatically. Show this M.S.D.S. to the medical practitioner.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Use water fog, dry chemical, and alcohol foam or carbon dioxide extinguishers. Water spray may be used to cool containers.
Hazards from combustion products:	Non Combustible. Fumes may be toxic and irritating. Reaction with some metals will produce flammable hydrogen gas.
Special precautions for fire fighters:	Fire fighters to wear full body protective clothing with breathing apparatus. Deluge with water to cool containers. Evacuate area move upwind of fire.
Hazchem code:	2R

6. ACCIDENTAL RELEASE MEASURES

Personal protection:	Wear protective clothing to prevent eye and skin contamination. Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, gloves, apron etc. including footwear.
Spills:	Spills are slippery. Caution-Heat may be evolved upon contact with water. Clear area of unprotected personnel. Contain all spills using inert absorbent (soil, sand, vermiculite). Collect and seal in properly labeled containers for disposal. Large spills should be contained with absorbent and removed to drums for disposal. Remove in accordance with local waste management authority.
Environmental precautions:	Prevent spills from entering drains and waterways. Contact local emergency services if contamination of sewers or waterways occurs.

MSDS version: 6
Reason for revision: New format

Date of revision: 15 May 2007

Elite Chemicals, 1873 Lytton Rd, LYTTON 4178.
Tel: 07 3893 7500, Fax: 07 3893 1219
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7. HANDLING AND STORAGE

Handling:	Handle according to good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Respect good personal hygiene.
Storage:	Store in original container. Keep container upright in cool dry area. Keep lid of container closed when not in use.
Materials to avoid:	Store away from acids and ammonium salts. Do not store in aluminium or galvanized containers. Do not use die-cast zinc or aluminium bungs. Caution-Heat may be evolved upon contact with water.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ASCC exposure limits:	The ASCC does not list an exposure limit for this product however TWA (peak limitation) of Sodium Hydroxide is $2\text{mg}/\text{m}^3$.
Biological limit values:	No biological limit allocated.
Engineering controls:	Use in a well ventilated area. If ventilation is insufficient use a corrosive – resistant ventilation system separate from other exhaust systems. Engineering control methods to reduce hazards are preferred.
Personal protective equipment:	Avoid breathing mists. Where sufficient ventilation is not available then wear an AS 1715 and 1716 approved respirator. Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, face shield, gloves, apron etc. including footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid.
Odour:	nil
pH:	> 14
Boiling range (°C):	ca. 100
Melting range (°C):	ca. 0
Flash point (°C):	> 65
Specific gravity (g/ml):	ca. 1.5
Solubility:	Completely soluble in water.

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10. STABILITY AND REACTIVITY

- Reactivity: This material vigorously reacts with acids to generate heat. Reacts violently with ammonium salts generating ammonia gas. Caution-Heat may be evolved upon contact with water
- Conditions to avoid: Use only as directed on the label and Technical Appraisal. Store in accordance with directions given in Section 7 of this MSDS. Keep containers closed as this material absorbs carbon dioxide from the air.
- Incompatible materials: This material is not to be stored in aluminium, zinc or tin containers.
- Hazardous reactions: Hydrogen gas is generated when undiluted material contacts aluminium, zinc or tin.

11. TOXICOLOGICAL INFORMATION

Health effects from likely routes of exposure.

- Swallowed: Corrosive. Ingestion may cause nausea, vomiting, headache, pain, diarrhoea and possible burns. Other symptoms may include swelling of the larynx, suffocation, perforation of the gastrointestinal tract, collapse and coma.
- Eye: Corrosive. Can cause permanent injury with redness, pain and burns.
- Skin: Corrosive. Exposure may cause irritation and possible burns. Skin contact often does not cause pain, contamination of gloves and boots should be avoided.
- Inhale: Inhalation of mists may cause severe irritation to the respiratory system including burns to the upper respiratory tract. Inhalation of large doses may cause pulmonary edema, pneumonitis and emphysema.

Chronic – Chronic effects are unlikely due to the severity of acute effects.

For Sodium Hydroxide:

Oral LD50 (rabbit): 500 mg/kg, SKIN (rabbit): Severe Irritation 500 mg/24 H.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Remove for disposal in accordance with local waste management regulations. Can be diluted with large amounts of water and flushed to drain with copious amounts of water.

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14. TRANSPORT INFORMATION

	UN Number	Proper Shipping Name	Class	Sub-Class	Hazchem	Pack Grp
ROAD (ADR)	1824	Sodium Hydroxide Solution	8	-	2R	II
AIR (IATA)	Contact Elite Chemicals if this product is to be transported by air.					
SEA (IMDG)	Contact Elite Chemicals if this product is to be transported by sea.					

Special precautions for user: Store away from acids and ammonium compounds.

15. REGULATORY INFORMATION

Contains: Sodium Hydroxide
Hazard symbol: Corrosive (C)
Risk-phrases: R35 Causes severe burns.
Safety-phrases: S(1/2)-26-36/37/39-45 Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident, or if you feel unwell, contact a doctor or Poisons Information Centre immediately.

Poisons Schedule: S6 Poison

16. OTHER INFORMATION

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

NOTICE: This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the Product **Technical Appraisal Sheet** (Instructions for use), and the label on the drum. Elite Chemicals cannot anticipate or control the individual working conditions encountered and so each user should read this MSDS carefully, and if in doubt ring the Company number 07 3893 7500 (24 hour service) and / or the Contact Point Number given below. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is lodged with each customer and is available on request.

END OF MSDS

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